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4		5,838,634	11/17/98	Jones et al.	367	73			
8		5,675,147	10/7/97	Ekstrom et al.	250	256			
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U.S. PATENT DOCUMENTS								
*EXAMINER INITIAL	REF	DOCUMENTION	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
Allen, D. F., Barber, T., Flaum, C., Hemingway, J., Anderson, B., des Ligneris, S., Everett, R., and Morriss, C., 1988, "Advances in High-Resolution Logging", The Technical Review, Schlumberger, v. 36, no. 2, pp. 4-14.								
8	2	American Geological Institute, 1984, Dictionary of Geological Terms, 3rd Edition, R. L. Bates and J. A. Jackson, eds., Anchor Books, Doubleday, New York, p. 571.						
\$	3 -	Anderson, B., Safinya, K. A., and Habashay, T., 1988, "Effect of Dipping Beds on the Response of Induction Tools", SPE Formation Evaluation, March 1988, pp. 29-36.						
R	4	Arehart, R. A., and Sullivan, K. B., 1996, "Automated Net-to-Gross Cutoffs from Digital Core Images" Formation Evaluation and Reservoir Quality Newsletter (Winter, 1996) pp. 151-153.						
. 10	5	Beck, G. F., 1995, "Foreward Modeling of Deep Resistivity Response in Norphlet Wells", Proceeding of SPWLA 36th Annual Symposium, Paper HHH, June 26-29, 1995, pp. 1-12.						
10	6	Brackett, R. A., 1996, "Direct Digital Core Imaging: An Evaluation of Available Products", Formation Evaluation and Reservoir Quality Newsletter (Summer, 1996) vol. 27, pp. 3-4.						
8	7	Brackett, R. A., 1996, "Flip/Frac View: Error in Dip Determination from Borehold Images", Formation Evaluation and Reservoir Quality Newsletter (Summer, 1996) vol. 27, pp. 15-17.						
R	8	Brackett, R. A., 1997, "ImageLog for Sand Volume Determination: An Evaluation", Formation Evaluation and Reservoir Quality Newsletter (Winter, 1997), vol. 28, pp. 31-34.						
9	9	Brackett, R. A., 1997, "A Checklist for Obtaining Useful Digital Core Images on Photo CDs", Formation Evaluation and Reservoir Quality Newsletter (Winter, 1997), vol. 28, pp. 35-36.						
Ş	10	Brackett, R. A., Friedmann, S. J., and Haro, J. E., 1996, "Comparison of Core Images from Kodak DCS 460C Digital Camera and Traditional Photography", Formation Evaluation and Reservoir Quality Newsletter (Summer, 1996), vol. 27, pp. 7-14.						
4	11	Brackett, R. A., Lukas, T. C., and Arehart, R. A., 1997, "Automated Texture-Based Classification of Image Data Using QBIC (Query by Image Content)", Formation Evaluation and Reservoir Quality Newsletter (Winter, 1997), vol. 28, pp. 37-45.						
B	12	Brackett, R. A., and Sullivan, K. B., 1996, "Digital Core Data Quality and Calibration: Implications in Thinly Bedded Reservoirs", Formation Evaluation and Reservoir Quality Newsletter (Winter, 1996) pp. 129-136.						
81	13	Campbell, C. V., 19	67, "Lamina	, Laminaset, Bed and Bed	lset", Sedimen	tology, v. 8,	рр. 7-26.	
B	14	Chemali, R., Gianzero, S., and Su, S. M., 1987, "The Effect of Shale Anistrophy on Focused Resistivity Devises", SWLA 28th Annual Logging Symposium, London, Paper H, pp. 1-23.						
EXAMINER DATE CONSIDERED								
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in								
comormance a	conformance and not considered. Include copy of this form with next communication to applicant.							

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•EXAMINER INITIAL	REF	DOCUMENT SUMBER DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE			
	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
50	Chew, W., Barone, S., Anderson, B., and Hennessy, C., 1984, " Diffraction of Axisymmetric Waves in a Borehole by Bed Boundary Discontinuities", Geophysics, v. 9, no.10, pp.1586-1595.								
Sp	16	Hornby, B. E., Schwartz, L. M. and Hudson, J. A., 1993, "Effective Medium Modeling of the Electrical and Elastic Properties of Anisotropic Porous Media", SEG 63 <sup>rd</sup> Annual Meeting, Washington, D.C., Sept. 26-30, 1993, pp. 786-791.							
9	17	Dunsmuir, J., Shafer, J., and Thomman, H., 1997, "3-D Imaging of Pore Fluids Distributions in Chad Rock Using High Resolution X-Ray CT", Formation Evaluation and Reservoir Quality Newsletter (Winter, 1997), vol. 28, pp. 111-115.							
. 4	18	Eubanks, D. L., and Moustafa, O., 1997, "Characterization of Low-Contrast/Low-Resistivity Reservoirs with Modern Imaging Tools: Example from the Gulf of Mexico", AAPG Annual Convention, April 6-9, 1997, Dallas, TX, vol. 81, p. 1.							
9	19	Frodensen, E. W., and Lawrence, T., 1997, "Low-Resistivity, Low-Contrast Pay: Some Examples from Offshore North West Java", Ardjuna Basin, Indonesia, AAPG Annual Convention, April 6-9, 1997, Dallas, TX, vol. 81, p. 1.							
G	20	Galford, J. E., Flaum, C., Gilchrist, W. A., and Duckett, S. W., 1986, "Enhanced Resolution Processing of Compensated Neutron Logs", 61st Ann. Tech. Conference of SPE, paper 15541.							
So	21	Galway, R., 1997, "Netting and the Integration of Log, Core, and Test Data", Formation Evaluation and Reservoir Quality Newsletter (Winter, 1997), vol. 28, pp. 47-49.							
8	22	Herrick, D. C., and Kennedy, W. D., 1996, "Electrical Properties of Rocks: Effects of Secondary Porosity, Laminations, and Thin Beds", SPWLA 37th Annual Symposium, Paper C, pp. 1-11.							
%	23	Katahara, K. W., 1995, "Gamma Ray Log Response in Shaly Sands", The Log Analyst, v. 36, no. 4, pp. 50-55.							
8	24	Looyestijn, W. J., 1982, "Deconvolution of Petrophysical Logs: Applications and Limitations", SPWLA, 23 <sup>rd</sup> Annual Logging Symposium, July 6-9, 1982, Paper W, pp. 1-20.							
20	25	Lukas, T. C., 1997, SPE Forum "Applications of Borehole Imaging Technologies", July 7-12, 1996, Formation Evaluation and Reservoir Quality Newsletter, vol. 28, pp.147-152.							
·	26	Maveo, G., Mukerji, T., and Dvorkin, J., 1998, "The Rock Physics Handbook, Tools for Seismic Analysis in Porous Media", Cambridge University Press.							
4	McCoy, D. D. and Grieves, W. A., 1997, "Use of Resistivity Logs To Calculate Water Saturation at Prudhoe Bay", SPE Reservoir Engineering, February, pp. 45-51.								
EXAMINER DATE CONSIDERED									
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EXAMINER	Initial i	if citation considered, whether or not citation	n is in conformance with MDED	Section 600: Denu	line through cit	ation if not in			
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U.S. PATENT DOCUMENTS									
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
	39	5,461,562	10/24/95	Tabanou et al.	364	64 422			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)									
Moran, J. H., and Gianzero, S., 1979, "Effects of Formation Anisotropy of Resistivity Logging Measurements", Geophysics, v. 44, no. 7, pp. 1266-1286.									
8	29	Mullarkey, J. C., and Dolly, E. D., 1997, "Causes of Low Contrast, Low Resistivity in Hydrocarbon Productive Reservoirs of the Rocky Mountain and Mid-Continent Regions", AAPG Annual Convention, April 6-9, 1997 Dallas, TX, 1 p.							
4	30	Murtha, J. A., 1997, "Monte Carlo Simulation: Its Status and Future", Journal of Petroleum Technology, April, pp. 361-373.							
4	31	Pepper, C. F., and Reedy, G. K., 1996, "Analysis of Laminated Turbidities Using the Bimodal Sand Quality Model (Model Application)", Formation Evaluation and Reservoir Quality Newsletter (Winter, 1996) pp. 87-91.							
γ	32	Poupon, A., Loy, M. E., and Tixier, M. P., 1954, "A Contribution to Electrical Log Interpretation in Shaly Sands", Journal of Petroleum Technology, June 1954, v. 6, no. 6, pp. 27-34.							
✓	33	Reedy, G. K., and Pepper, C. F., 1996, "Analysis of Laminated Turbidities Using the Bimodal Sand Quality Model (Model Development)", Formation Evaluation and Reservoir Quality Newsletter (Winter, 1996) pp. 79-85.							
4	34	Serra, O., and Andreani, M., 1991, "Thin Beds- A Guide to Interpretation of Thinly Layered Reservoirs", Schlumberger, 82 p.							
35	35	Sneider, R. M., and Kulha, J. T., 1997, "Low Resistivity, Low Contrast Pays", 1997 AAPG Annual Convention, vol. 81, April 6-9, 1997, Dallas, TX, 1 p.							
3	36	Sullivan, K. B., and Brackett, R. A., 1996, "Repeatability in Net-to-Gross from Core Images: The Human Factor", Formation Evaluation and Reservoir Quality Newsletter (Winter, 1996) pp. 137-149.							
1	37	Sullivan, K. B., Brackett, R. A., and Albertin, S. J., 1996, "Net-to-Gross from FMI: A High-Resolution Comparison to Core", Formation Evaluation and Reservoir Quality Newsletter (Winter, 1996) pp. 155-169.							
4	38	Sullivan, K. B., and Yin, H., 1997, "SHARP™ and "Not-So-SHARP": Two Examples of 1D Resistivity Models", Formation Evaluation and Reservoir Quality Newsletter (Winter, 1997) vol. 28, pp. 99-103.							
EXAMINER	EXAMINER DATE CONSIDERED								
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.									

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Docket Number (Optional) Application Number PM 98.086 10/042.475 'INFORMATION DISCLESSING CITATION
(Use several sheets if necessary) Center 10 Applicants Kenneth E. Dahlberg Filing Date 2123 Jan 09, 2002 U.S. PATENT DOCUMENTS FILING DATE \*EXAMINER REF DOCUMENT NUMBER DATE NAME CLASS SUBCLASS INITIAL APPROPRIATE 48 4,739,255 4/19/88 Hagiwara, T. 324 152 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Tsang, L., Chan, A. K., and Gianzero, S., 1984, "Solution of the Fundamental Problem in 40 1 Resistivity Logging With a Hybrid Method" Geophysics, v. 49, no. 10, pp. 1596-1604. Van Wagoner, J., Mitchum, R., Campion, K., and Rahmanian, V., 1990, "Siliciclastic Sequence 41 Stratigraphy in Well Logs, Cores, and Outcrops: Concepts for High-Resolution Correlation of N Time and Facies", AAPG Methods in Exploration Series, No. 7., 55 pgs. 42 Wahl, J. S., 1983, "Gamma-Ray Logging", Geophysics, v. 48, no. 11, pp. 1536-1550. Yin, H., 1996, "The Use of Resistivity Micro-Probe and its High-Resolution Profile for Forward Modeling", Formation Evaluation and Reservoir Quality Newsletter (Winter 1996) pp. 103-109. Yin, H., 1996, "In-House" Resistivity Modeling-Where Are We Now?", Formation Evaluation 45 M and Reservoir Quality Newsletter (Winter 1996) pp. 111-121. Yin, H., 1997, "Resolving Differences Between LWD and Wireline Resistivity Data by DLL 2-D Modeling", Formation Evaluation and Reservoir Quality Newsletter (Winter 1997) vol. 28, pp. 46 m 87-91. Yin, H., and Sullivan, K. B., 1997, "Dual Laterolog (DLL) 2-D Modeling", Formation Evaluation 47 and Reservoir Quality Newsletter (Winter 1997) vol. 28, pp. 93-97 Van den Berg, F. et al, "Sandwich: Log Evaluation in Laminated Shaly Sands", SPWLA 37th 49 Annual Logging Symposium, June 16-19, 1996, Paper BB, 12 pgs. Tarantola, A., 1987, "Inverse Problem Theory: Methods for Data Fitting & Model Parameter 50 Estimation", pp. 167-185. Mendelson, K. S. and Cohen, M. H., 1982, "The Effect of Grain Anisotropy on the Electrical Properties of Sedimentary Rocks", Geophysics, vol. 47, no. 2, Feb. 1982, pp. 257-263. **EXAMINER** DATE CONSIDERED EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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